

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) An edge member of a diaphragm of a speaker made of a flexible polyurethane foam obtained by mixing a raw material containing a hydroxyl compound, a polyisocyanate, water as a foaming agent, a foam stabilizer, and catalyst, and foaming the mixture, wherein the flexible polyurethane foam has a molar ratio of urea bond relative to urethane bond of 7 or less and more than 0.2; said hydroxyl compound contains 100 parts by weight of polyether polyol having a molecular weight from 3000 to 6000 and containing 50 wt.% or more of secondary hydroxyl group, and 0.5-20 parts by weight of another hydroxyl compound having a molecular weight lower than that of the polyether polyol; said another hydroxyl compound is selected from the group consisting of ethylene glycol, propylene glycol, diethylene glycol, butanediol, glycerin, trimethylolpropane, triethylolpropane, trimethylolethane, triethylolethane, pentaerythritol and 1,2,6-hexanetriol; an amount of water compounded is 1.0 to 6.0 parts by weight relative to 100 parts by weight of the polyether polyol; and said flexible polyurethane foam has a density of 20 to 40 kg/m³,

wherein the molar ratio of the urethane bond / urea bond is calculated by dividing a number of moles of the urethane bond by a number of moles of the urea bond wherein said numbers are defined by the following equations:

the number of moles of the urethane bond = $(f_a \times A) / (M_{wa} \times f_c^2)$; and the number of moles of the urea bond = $B / 18$,

wherein A = amount of the hydroxyl compound in parts by weight;

B = amount of water in parts by weight;

fa = number of functional groups of the hydroxyl compound;
Mwa = molecular weight of the hydroxyl compound; and
fc = number of functional groups of the polyisocyanate.

2. (Canceled)

3. (previously presented) The edge member as claimed in claim 1, wherein said foam stabilizer is a silicone based stabilizer modified with a polyether, and has at least one reactive group.

4. (Previously presented) The edge member as claimed in claim 1, wherein said molar ratio of the urea bond relative to the urethane bond is 4 or less.

5-12. (Canceled)

13. (Previously presented) The edge member as claimed in claim 1, wherein said polyurethane foam has heat and humidity aging characteristics of at least 85% evaluated based on a retention of a tensile strength of the flexible polyurethane foam which was kept in an autoclave at a temperature of 115 °C for 24 hours.

14. (Previously presented) The edge member as claimed in claim 1, wherein said raw material further includes a cross-linking agent.

15-16. (Canceled)

17. (new) The edge member as claimed in claim 1, wherein said polyisocyanate is selected from the group consisting of tolylene diisocyanate, diphenylmethane diisocyanate, diphenyl diisocyanate,

triphenyl diisocyanate, chlorophenyl-2,4-diisocyanate, p-phenylene diisocyanate, xylene diisocyanate, and polyaniline polyisocyanate.

18. (new) The edge member as claimed in claim 17, wherein said polyisocyanate has an isocyanate index from 85 to 120.